Appl. No.: 10/539.790

# AMENDMENTS TO THE CLAIMS WITH MARKINGS TO SHOW CHANGES MADE, AND LISTING OF ALL CLAIMS WITH PROPER IDENTIFIERS.

#### 1-3. (Canceled)

- 4. (Previously presented) The carboxamide-substituted dye as claimed in claim 34, in which Cyc1 is substituted or unsubstituted phenyl, naphthyl, pyridyl or cyclohexyl.
- 5. (Cancelled)
- 6. (Previously presented) The carboxamide-substituted dve as claimed in claim 34 in which R1 is bridged with R2 or R3 is bridged with R7 or R1 is bridged with R<sub>8</sub> and R<sub>3</sub> is bridged with R<sub>7</sub> forming a ring system
- 7. (Previously presented) The carboxamide-substituted dve as claimed in claim 6, in which the ring system comprises 5- or 6-membered rings.
- 8. (Currently amended) The carboxamide-substituted dve as claimed in claim 7. in which a ring system of the structure (K), (L), (M), (N) or (O) is formed:

Appl. No.: 10/539,790

$$\begin{array}{c} R \\ R \\ R \\ R \\ R \\ R \\ R \end{array}$$

$$(M)$$

$$(N)$$

$$(N)$$

in which  $\underline{R}$  in each case independently is defined as  $\underline{R}_1$ ,  $\underline{R}_3$ ,  $\underline{R}_4$  and the dashed lines are optionally double bonds in the presence of which the moleties bound via a dashed line are absent.

## 9-14. (Cancelled)

15. (Previously presented) The carboxamide-substituted dye as claimed in claim 8, in which Cyc1 is optionally substituted phenyl, Cyc2 has the structure (E) and Y = oxygen and R<sub>7</sub> and R<sub>3</sub> form a ring system (K).

### 16-20. (Cancelled)

 (Previously presented) A process for preparing carboxamide-substituted dyes of the formula (I) as claimed in claim-34, comprising the following steps:

Appl. No.: 10/539,790

(a) converting the carboxyl group of a dye of the formula (II)

$$\begin{array}{c} \text{Cyc1} & \text{COOH} \\ \\ \text{R}_4 & \\ \text{R}_5 & \\ \\ \text{R}_{1} & \\ \end{array}$$

in which the moieties are defined as indicated in claim 34, into an activated form:

- (b) reacting the activated dye obtained in step (a) with a secondary amine  $HNR_5R_6$ ; and
- (c) optionally isolating the carboxamide-substituted dye of the formula (I) obtained in step (b).
- (Original) The process as claimed in claim 21, in which step (a) is carried out at temperatures of from room temperature to 60°C.
- (Previously presented) The process as claimed in claim 21, in which an aprotic solvent is used in step (b).
- (Previously presented) The process as claimed in claim 21 in which N-hydroxysuccinimide, N-hydroxyphthalimide, N-hydroxynaphthalimide, O-(N-succinimidyl)-N,N,N',N'-tetramethyluronium tetrafluoroborate (TSTU) are used for activation.

### 25-33 (Cancelled);

34. (Currently amended) A carboxamide-substituted dye of the formula (I)

Appl. No.: 10/539,790

Cyc2 
$$R_4$$
  $R_3$   $(I)$ 

#### in which

Y= oxygen, R<sub>1</sub>, R<sub>3</sub>, R<sub>4</sub> are independently hydrogen, halogen, -O<sup>o</sup>, a hydroxyl group, thiol group, amino group, ammonium group, sulfo group, phospho group, nitro group, carbonyl group, carboxyl group, a carboxylic acid derivative, a nitrile group, isonitrile group, cyanate group, isocyanate group, thiocyanate group, isothiocyanate group or a straight-chain, branched or cyclic saturated or unsaturated hydrocarbon group having up to 40 carbon atoms:

$$R_2 = \bigvee_{\substack{n \in \mathbb{N} \\ R_8}}^{\mathbb{N}_7}$$

#### in which

 $R_{7}$ ,  $R_{8}$ , independently are hydrogen or a straight-chain, branched or cyclic saturated or unsaturated hydrocarbon group having up to 40 carbon atoms; or

R<sub>1</sub> together with R<sub>2</sub> is

Appl. No.: 10/539,790

#### in which

R<sub>10</sub>, R<sub>11</sub>, R<sub>13</sub> are as defined for R<sub>1</sub>, R<sub>3</sub>, R<sub>4</sub>;

$$R_{12} = N < R_{16} R_{17}$$

in which

R<sub>16</sub>, R<sub>17</sub> are as defined for R<sub>7</sub>, R<sub>8</sub>,

 $R_5$ ,  $R_6$ , independently are a straight-chain, branched or cyclic saturated or unsaturated hydrocarbon group having up to 40 carbon atoms, wherein at least one of  $R_6$  and  $R_6$  comprises a carboxy group;

Cyc1 is an organic molety which comprises a ring system selected from aromatic, heteroaromatic, quinoidal and cycloaliphatic rings; wherein Cyc1 is substituted with -CONR<sub>5</sub>R<sub>6</sub> at the ortho-position of the ring attached to a backbone of formula (I):

Cyc2 is an organic moiety which comprises a ring system selected from aromatic, heteroaromatic, quinoidal and cycloaliphatic rings; wherein Cyc2 has a structure selected from (A), (D), (E), (F), (G), (H) or (J),

Appl. No.: 10/539,790

$$R_{19}$$
 $R_{20}$ 
 $R_{21}$ 
 $R_{22}$ 
 $R_{23}$ 
 $R_{23}$ 
 $R_{24}$ 
 $R_{25}$ 
 $R$ 

in which R in each case independently is defined as  $R_1$ ,  $R_3$ ,  $R_4$ ;  $R_{19}$ ,  $R_{20}$  and  $R_{22}$ ,  $R_{23}$  are independently defined as  $R_7$ ,  $R_8$ ; and  $R_{21}$  is defined as  $R_{74}$ .

and the dashed lines are optionally double bonds in the presence of which the moieties bound via a dashed line are absent,

each of said moieties in the dye of the formula (I) being able to form a ring

Docket No.: ARDEN-JACOB-3 Appl. No.: 10/539,790

system with one or more neighboring moieties;

and X being one or more mono- or multivalent anions, when required for balancing the charge; and wherein at least one of  $R_1$ ,  $R_3$ ,  $R_4$ ,  $R_{10}$ ,  $R_{11}$ ,  $R_{13}$  and R is a sulfo group.

### 35. (Currently amended) A carboxamide-substituted dye of the formula (1) (la)

$$\begin{array}{c|c} Cyc' \\ \hline \\ R_3 \\ \hline \\ R_{10} \\ \hline \\ R_{20} \\ \hline \\ R_1 \\ \end{array} \begin{array}{c} CONR_5R_6 \\ \hline \\ R_4 \\ \hline \\ R_3 \\ \hline \\ R_2 \\ \end{array} \qquad \chi \qquad \text{(1a)}$$

#### in which

Y = oxygen,  $R_{1x}$ ,  $R_{3'x}$ ,  $R_{3'x}$ ,  $R_{4}$  and  $R_{4'}$  are independently hydrogen, halogen, -O°, a hydroxyl group, thiol group, amino group, ammonium group, sulfo group, phospho group, nitro group, carbonyl group, carboxyl group, a carboxylic acid derivative, a nitrile group, isonitrile group, cyanate group, isocyanate group, thiocyanate group, isothiocyanate group or a straight-chain, branched or cyclic saturated or unsaturated hydrocarbon group having up to 40 carbon atoms; wherein at least one of  $R_1$ ,  $R_3'$ ,  $R_3$ ,

Docket No.: ARDEN-JACOB-3 Appl. No.: 10/539.790

R<sub>3</sub>', R<sub>4</sub> and R<sub>4</sub>' is a sulfo group

$$R_2 = \bigvee_{R_8}^{\bigoplus} R_7$$

 $R_5$ ,  $R_6$ , independently are a straight-chain, branched or cyclic saturated or unsaturated hydrocarbon group having up to 40 carbon atoms; wherein at least one of  $R_5$  and  $R_6$  comprises a carboxy group,

 $R_7$ ,  $R_8$ ,  $R_{19[]}$  and  $R_{20}$  independently are hydrogen or a straight-chain, branched or cyclic saturated or unsaturated hydrocarbon group having up to 40 carbon atoms.

Cyc1 is an organic moiety which comprises a ring system selected from aromatic, heteroaromatic, quinoidal and cycloaliphatic rings; wherein Cyc1 is substituted with  $-\text{CONR}_6\text{R}_6$  at the ortho-position of the ring attached to a backbone of formula (+) (la);

- (Currently amended) The carboxamide-substituted dye of the formula (I)
  of claim 34, wherein R<sub>74</sub> R<sub>8</sub> independently are straight-chained saturated
  hydrocarbon groups.
- (Currently amended) The carboxamide-substituted dye of the formula (!)
   (Ia) of claim 35, wherein R<sub>1x</sub> R<sub>1</sub>' independently are sulfo groups.